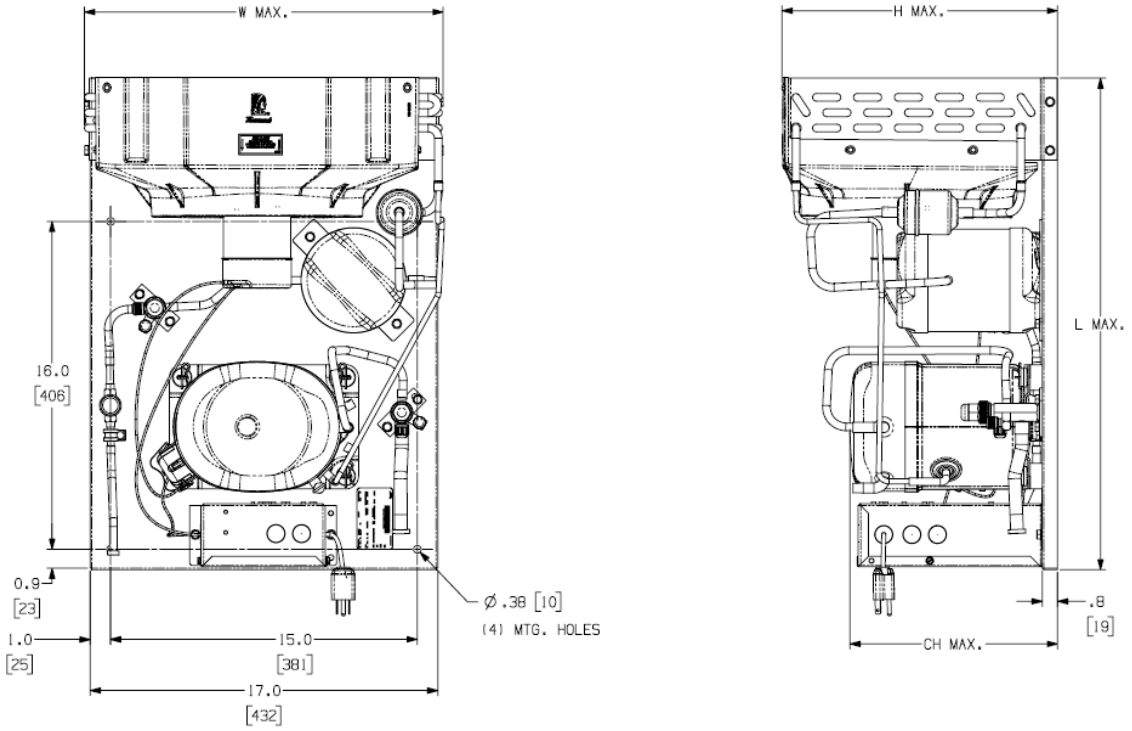
Sept. 4, 2014
Revision: REL

Celseon® Air Cooled Condensing Unit

Model: AKA9463ZNACJ
BoM: 2G718-79XP **R-404a** **3/4 HP**



Model	Dimensions, inches				Line Connection*		Pumpdown	Air	Oil Ch	Gr. Wt.
	L	W	H	CH	Suction	Liquid	90 °F 90%	SCFM	Oz.	Lbs.
AKA9463ZNACJ	24.0	17.5	13.4	10.2	5/8” S	3/8” S	6.1 lbs	270	17	68

* F = Flare, S = Solder, RF or RS = Rotolock with Flare or Solder Connections, C = Compression Fitting
Factory charge: 20 PSIG Nitrogen – **MUST BE EVACUATED**

		Ambient Temperatures											
Evaporator T,		80°F			90°F			100°F			110°F		
°F	PSIG	BTUH	Watts	Cond T	BTUH	Watts	Cond T	BTUH	Watts	Cond T	BTUH	Watts	Cond T
0	33.4	4866	1100	104	4285	1104	112	3687	1096	120	3135	1078	128
5	39.0	5376	1168	107	4750	1176	115	4113	1178	123	3553	1170	131
10	43.9	5923	1239	109	5251	1252	118	4568	1262	125	3959	1261	133
15	49.8	6508	1315	112	5788	1332	120	5052	1347	128	4354	1351	136
20	56.1	7130	1394	115	6360	1416	123	5565	1435	131	4737	1441	138
25	62.9	7789	1477	119	6969	1505	126	6107	1524	133	5108	1529	141
30	70.2	8485	1563	122	7613	1597	129	6679	1615	136	---	---	---
35	77.9	9218	1654	125	8293	1694	132	7279	1708	139	---	---	---
40	87.0	9988	1748	129	9008	1795	135	---	---	---	---	---	---
45	95.1	10795	1846	132	9759	1900	139	---	---	---	---	---	---

60 Hz Performance
Return gas temp. 40°F, 5°F sub cooling

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Specifications/ Parts:

Unit Model	**AKA9463ZNACJ**
Unit Bill of Material	**2G718-79XP**
Refrigeration Range	-10° F to +45° F
Design Pressure Low	181
Design Pressure High	450
Nominal Volts-Hz-Ph	208/230-60-1
Voltage Range	187-254
Min. Circuit Ampacity	9.3
Max. Fuse Size (amps)	15
Compressor Model	AKA9462ZXD
Comp. Bill of Material	AK172ET-037-P2
Compressor RLA/LRA	6.8/34
Overload	External
Relay	820ARR3C46
Run Capacitor	85PR370E36
Run Capacitor Rating	15MFD 370V(M) VDE
Start Capacitor	85PS330D72
Start Capacitor Rating	72-88 MFD 330V VDE
Fan Motor	810-10091
Fan Motor RLA	0.8
Fan Blade	51584
Fan Shroud/Guard Combo	707-00002
Condenser	506-00002
Receiver Tank	510-10002
Liquid Valve	56662
Suction Valve	56661
Filter Drier	70081
Sight Glass	70084
Unit Drawing	DGU1970-06
Wiring Diagram	91266-02
Replacement Kit: Relay	K71-16
Replacement Kit: O/L	K90-22
Replacement Kit: St. Cap	K146-60

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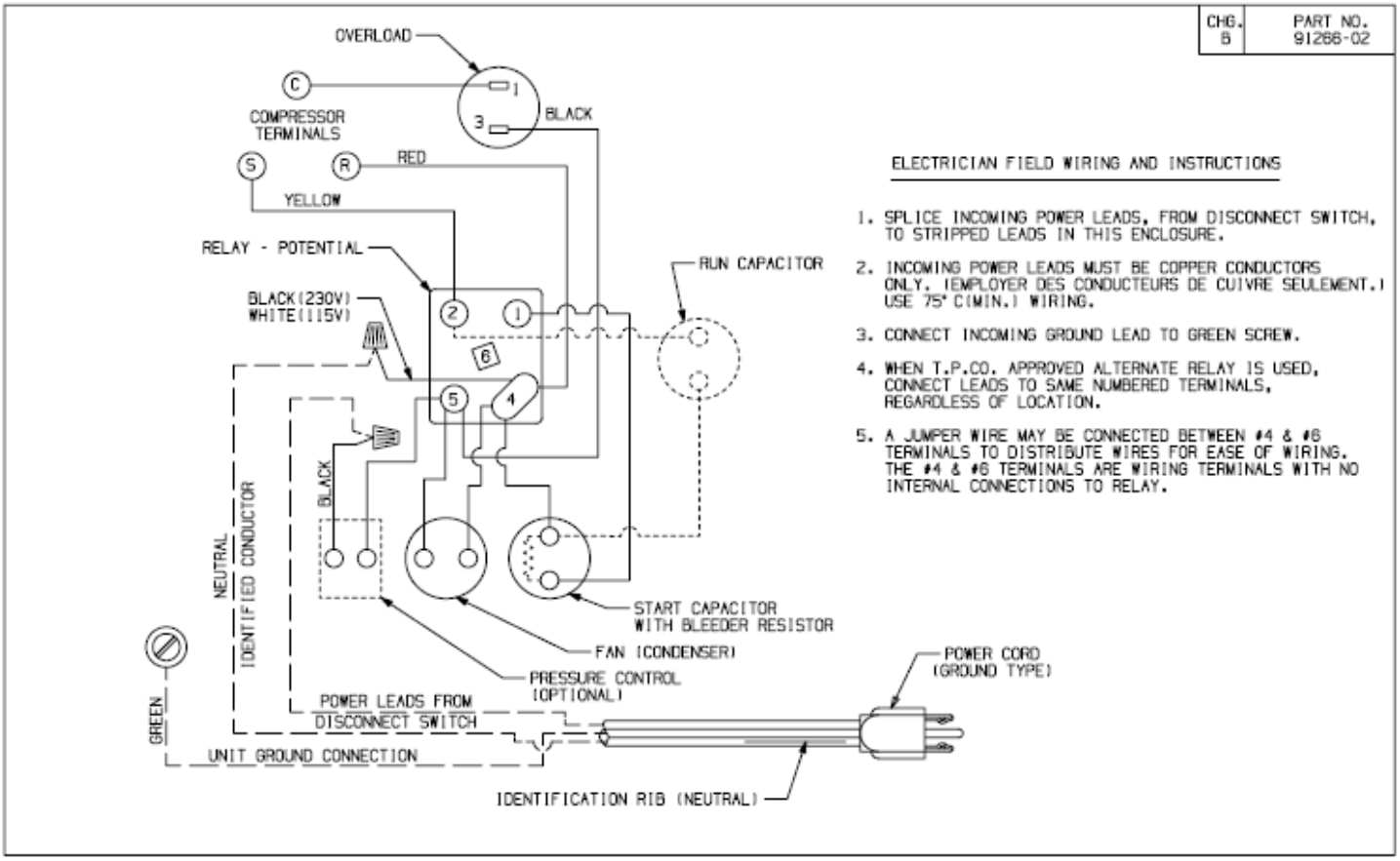
Electrical Diagram Page 3


CHG. B
PART NO. 91266-02
OVERLOAD
C
COMPRESSOR TERMINALS
S
R
RED
YELLOW
BLACK
RELAY - POTENTIAL
BLACK(230V)
WHITE(115V)
RUN CAPACITOR
BLACK
NEUTRAL
IDENTIFIED CONDUCTOR
START CAPACITOR WITH BLEEDER RESISTOR
FAN (CONDENSER)
PRESSURE CONTROL (OPTIONAL)
POWER CORD (GROUND TYPE)
POWER LEADS FROM DISCONNECT SWITCH
GREEN
UNIT GROUND CONNECTION
IDENTIFICATION RIB (NEUTRAL)
ELECTRICIAN FIELD WIRING AND INSTRUCTIONS
1. SPLICE INCOMING POWER LEADS, FROM DISCONNECT SWITCH, TO STRIPPED LEADS IN THIS ENCLOSURE.
2. INCOMING POWER LEADS MUST BE COPPER CONDUCTORS ONLY. (EMPLOYER DES CONDUCTEURS DE CUIVRE SEULEMENT.) USE 75° C(MIN.) WIRING.
3. CONNECT INCOMING GROUND LEAD TO GREEN SCREW.
4. WHEN T.P.CO. APPROVED ALTERNATE RELAY IS USED, CONNECT LEADS TO SAME NUMBERED TERMINALS, REGARDLESS OF LOCATION.
5. A JUMPER WIRE MAY BE CONNECTED BETWEEN #4 & #6 TERMINALS TO DISTRIBUTE WIRES FOR EASE OF WIRING. THE #4 & #6 TERMINALS ARE WIRING TERMINALS WITH NO INTERNAL CONNECTIONS TO RELAY.